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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/382,438 08/25/1999		08/25/1999	WILLIAM R. GARDNER	QCPA990482	5232
23696	7590	07/30/2002			
Qualcomm I	-	ated	EXAMINER		
Patents Depar 5775 Moreho	use Drive		RYMAN, DANIEL J		
San Diego, CA 92121-1714				ART UNIT	PAPER NUMBER
				2665	
			DATE MAILED: 07/30/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

1,13

Office Action Summary Office Action Summary Office Action Summary Daniel J. Ryman 2665 Art Unit Daniel J. Ryman 2665 As HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE § MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. HE MAILING DATE OF THIS COMMUNICATION. THE peod for reply sepoided above is as his into the provision of ST CFR 1.34(a), in no event, however, may a reply be linely filled to the peod for reply sepoided above is as his into the provision of ST CFR 1.74(a), and even provision of the provision of the peod for reply sepoided above is as his into the provision of ST CFR 1.74(a), and even provision of the peod of the p		Application No.	Applicant(s)				
Daniel J. Ryman Z665	Office Antique Commence	09/382,438	GARDNER ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be evaluated used the processor of 3 CFR 1.13(a). In or event, however, may a ricely be simily field if the panied for apple specified above is less than thirty (30) days, a ricy by within the statisticy minimum of theiry (30) days will be considered simely. If No pared for apple specified above is less than thirty (30) days, a ricy by within the statisticy minimum of theiry (30) days will be considered simely. If No pared for apple specified above is less than thirty (30) days, a ricy by with the statisticy precived all page 4 will expire SKI, MONTHS from the rating galate of hits communication. A proper serviced by the Office later than there in notins after the mailing date of this communication, even if stringly field, may reduce a my Status 1) □ Responsive to communication(s) filed on 25 August 1999. Status 1) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 ○ Claim(s) 19 is/are pending in the application. 4 ○ Claim(s) 19 is/are allowed. 5 □ Claim(s) 19 is/are objected to. 5 □ Claim(s) 19 is/are objected to. 6 □ Claim(s) 19 is/are objected to by the Examiner. Application Papers 9 ○ The specification is objected to by the Examiner. 10 ○ The drawing(s) field on 25 August 1999 is/are: a) □ accepted or b) □ objected to by the Examiner. If approved, corrected drawings are required in reply to this Office action. 11 □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12 □ The orthory deciration is objected to by the Examiner. Priority under 38 U	Office Action Summary	Examiner	Art Unit				
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THE MAILING DATE OF THIS COMMUNICATION. Extensions of ther may be valiable under the provides of 37 cFt 1.15(8). In no event, however, may a reply be timely field after SX (8) MONTHS from the mailing date of this communication. It is placed to reply a specification to the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statutory principal apply and with earpie 1.05(8) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will. By statute, cause the application to become ARANDONED (34 U.S. C. § 1130). Any reply received by the foliase with him there mornial aging and will expair at (8) (MONTHS from the mailing date of this communication, even if timely field, may reduce any statute. 1) Responsive to communication(s) filled on 25 August 1999. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under £x parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) 1-9 is/are allowed. 6) Claim(s) 1-9 is/are allowed. 7) Claim(s) is/are allowed. 8) Claim(s) 1-9 is/are allowed. 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 25 August 1999 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawings correction filed on is: a) Dapproved by Disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The eath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a) (d) or (f). a) The translation of the forei	• •						
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application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	Certified copies of the priority documents	have been received in Application	on No				
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	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal F					

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: On page 22 lines 12 and 13, both references to "bit generator 504" should be "bit generator 514" so as to match the reference number seen in Fig. 5d.

Appropriate correction is required.

Drawings

- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: part number 515 in Fig. 5a. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to because in Fig. 5e part number 552 should have "Walsh (++--)" not "Walsh (+-)" so as to match page 25 line 23-pg. 24 line 1. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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The changes made to 35 U.S.C. 102(a) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 5. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Anglin (WO 99/18684).
- 6. Regarding claim1, Anglin discloses allocating a reverse link within a band class, the reverse link communicatively coupling a base station and a mobile station (pg. 2 lines 1-6 under Disclosure). This allocation method comprising: transmitting first information on a multi-carrier forward link comprising multiple frequencies (pg. 5 lines 9-18); receiving said first information at said mobile station (pg. 5 lines 13-14) where users are equivalent to a mobile station; transmitting second information on said reverse link (pg. 5 lines 19-21) at one of said multiple frequencies (pg. 4 lines 7-9 and pg. 5 lines 21-22) (the forward link is in frequency bands 2.31-2.32 and 2.345-2.36 GHz while the reverse frequency range is 1KHz-3 GHz); and receiving said second information at said base station (pg. 5 lines 19-21) where the base station is taken to be the network management center.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 8. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Anglin (WO 99/18684) in view of Tiedemann et al. (USPN 6,335,922).
- 9. Anglin does not disclose having the multiple frequencies support any combination of code channels. Tiedemann teaches that "on the forward link, the 1.2288 MHz bandwidth is divided into 64 code channels...Most of the code channels are defined as traffic channels which are allocated, upon demand, to users for voice communication. Some code channels are defined as paging channels...Several code channels...are reserved for system overhead" (col. 1 lines 54-62). Although it is not explicitly stated, it is implicit that this is done in order to allow multiple functions such as paging, voice communication, and system communication to occur in the same frequency bandwidth. It would have been obvious to one of ordinary skill in the art of wireless communication to modify Anglin to include any combination of code channels within the multiple frequencies to allow a frequency bandwidth to incorporate any combination of multiple functions such as paging, voice communication, and system communication depending on the desired application.
- 10. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Anglin (WO 99/18684) in view of Tiedemann et al. (USPN 6,335,922) as applied to claim 2 above, and further in view of Gilhousen et al. (USPN 5,056,109).
- 11. Anglin in view of Tiedemann discloses having a code channel reserved for system overhead such as pilot and sync channels (Tiedemann: col. 1 lines 61-62); however Anglin in view of Tiedemann does not disclose having a code channel on the forward link communicate power control information for the reverse link and a fundamental channel. Gilhousen teaches

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having a code channel on the forward link communicate power control information for the reverse link and a fundamental channel (col. 2 lines 3-13). Gilhousen does this to maximize system capacity by transmitting each signal at a minimum amount of power (col. 4 lines 23-31). It would have been obvious to one of ordinary skill in the art of wireless communication to communicate power control information for the reverse link and a fundamental channel to maximize system capacity.

- 12. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Anglin (WO 99/18684) in view of Tiedemann et al. (USPN 6,335,922) and in further in view of Gilhousen et al. (USPN 5,056,109) as applied to claim 3 above, and further in view of Odenwalder et al (USPN 6,173,007).
- 13. Anglin in view of Tiedemann in further view of Gilhousen does not disclose having a channel other than one of the code channels to be used as a supplemental channel. Odenwalder teaches a transmit system that includes a supplemental channel (col. 3 lines 4-9). Oldenwalder does this as a way to allow an extended set of channels (col. 3 lines 42-47) to cope with the anticipated demand for higher transmission rates in the forward link relative to the reverse link (col. 1 lines 63-66). It would have been obvious to one of ordinary skill in the art of wireless transmission to include supplemental channels as a way to allow the forward link to have a higher transmission rate than the reverse link.
- 14. Claim 5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anglin (WO 99/18684) in view of Jensen et al. (USPN 5,648,955).
- 15. Regarding claim 5, Anglin does not disclose having the reverse link varied over the band class allocated to the mobile station. Jensen teaches "each user station may have a frequency

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synthesizers which can be programmed to receive and transmit on any one of 223 frequencies" (col. 6 lines 22-25). Although it is not explicitly stated that the reverse link can be varied only over the band class allocated to the mobile station, it would be obvious to do this because the mobile station wants to transmit information over the reverse link such that the base will detect it. This will occur if the transmission is within the band class allocated to the mobile station.

Jensen does this to add flexibility to the communication system (col. 1 lines 49-50). It would have been obvious to one of ordinary skill in the art of wireless communication to have the reverse link be varied over the band class allocated to the mobile station in order to increase the flexibility of the system.

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- 16. Regarding claim 6, Anglin in view of Jensen discloses limiting the number of multiple frequencies to only three (Jensen: col. 3 line 63-col. 4 line 5). Jensen does this to minimize interference between adjacent cells when having frequencies reused (col. 3 lines 49-51 and col. 3 line 63-col. 4 line 5). It would have been obvious to one of ordinary skill in the art of wireless communications to have the multiple frequencies be limited to three frequencies to allow for minimization of interference between adjacent cells when implementing frequency reuse.
- 17. Regarding claim 7, Anglin in view of Jensen discloses having the multiple frequencies be adjacent frequencies (Jensen: col. 3 lines 63-65). One reason that frequencies are placed adjacent to each other is to ensure that the entire frequency band is efficiently used. It would have been obvious to one of ordinary skill in the art of wireless communication to have the frequencies adjacent to each other so that efficient use of the frequency band is realized.
- 18. Regarding claim 8, Anglin in view of Jensen discloses that it is clear to those of ordinary skill in the art that air channels may be multiplexed using many means including FDMA by

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assigning air channels to differing frequency bands, CDMA by assigning air channels to differing spread-spectrum spreading codes, other multiplexing techniques (including TDMA), or combinations of multiplexing techniques (Jensen: col. 20 lines 52-62). It would be obvious to use differing techniques depending on the application and what multiplexing arrangement best fit that application. It would have been obvious to one of ordinary skill in the art of wireless communications to have multiple adjacent frequencies separate from another frequency supporting another type of channel in order to allow different application to be used with each application taking advantage of its most applicable multiplexing arrangement.

19. Regarding claim 9, Anglin in view of Jensen discloses that the preferred embodiment of Jensen's system is implemented with TDMA or TDD (Jensen: col. 3 lines 36-40). Although Jensen does not specifically disclose using FDD because Jensen's disclosed embodiment only details TDMA/TDD, Jensen does disclose that the system can be implemented with FDMA techniques. If TDD can be implemented as well as TDMA in the system, it would be obvious that if FDMA techniques are also possible that FDD could also be implemented within the system.

Conclusion

20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rakib et al. (USPN 5,793,759) esp. see col. 6 line 65-col. 7 line 6.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Ryman whose telephone number is (703)305-6970. The examiner can normally be reached on Mon.-Fri. 7:00-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (703)308-6602. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-6743 for regular communications and (703)308-9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3900.

> Daniel J. Ryman Examiner Art Unit 2665

DUZ

Daniel J. Ryman July 19, 2002

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